

HOT DISCUSSION FOLLOWS LIBERAL CLUB ADDRESSES

Doctor Keyes and Professors
Barker and Vallarta Talk
to Students

PROF. TYLER PRESIDES

"Americans Consider Professors
Brown Baggers", Professor
Vallarta States

Educational systems of American and European colleges were thoroughly discussed at the Liberal Club's symposium in Room 10-250 last Monday. Professor Richard G. Tyler '10 opened the meeting before a rather large audience. As chairman Professor Tyler gave an introductory talk on the history and success of the Liberal Club after which he introduced the first speaker, Professor Frederick G. Keyes Ph. D. head of the Chemistry Department.

Doctor Keyes began his talk by showing the inherent differences which took root from the history of the two types of colleges. The American college being founded mainly for the purpose of turning out ministers, while the European college began as associations of students. The great problem of the present American College is to decide upon its objection, whether to "train" men or to educate them. The chief difficulty is that the students treat the college as a four year club and education must be "given" to them. "Every Institute must decide whether it will turn out specifically trained men or the best, and well educated engineers." This, according to Dr. Keyes, is the main thing to be decided.

"We must not copy the European system of education. Our economic conditions are different," is the belief of Dr. Keyes. We must eventually evolve our own system using some of the points of both and combining them to suit our economic demands.

Professor Barker Outlines Means

Professor Joseph W. Barker '16 of the Electrical Engineering Dept., was the next speaker. He agreed with Dr. Keyes' speech in every point and in adding to it gave a list of seven points necessary to improve engineering educational conditions in the United States: 1, Only best qualified students to be admitted; 2, All students should receive fair trial; 3, All unfitted should be made to leave without the stigma of failure; 4, A failure should be considered a disgrace; 5, Means of indicating levels of accomplishment; 6, Stimulation to high ambition; 7, Each student should be treated according to his mental ability.

He also gave the salient points of the European educational system. They are; (1) The excellency of the teaching. There they honor a man who is a professor and therefore have a larger number of applicants to choose from; (2) Free regime of work. This is only possible where the student body is anxious to study. There are no required courses, no required attendance to classes, and only two examinations. (3) Their teaching is divided into three types; a, the individual research; b, lecture system; c, the semi-independent design and experimentation; (4) Simplicity of organization and the complete absence of red tape. (5) Much laboratory work. (6) Union between the School and Industry. This system is possible only because of the high grade of "prep" schools in Europe. The average graduate of the German "Gymnasium" is as high up in mental calibre as the American college Junior. As a result we have to begin sifting

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Subscription Campaign Opened by THE TECH

Special reduced rates for subscriptions to THE TECH for the remainder of the school year will be offered to all students who do not already have subscriptions. This rate will be \$1 and those who buy the subscriptions will receive copies of the paper from now until June. This offer starts next Monday after the Prom issue has been sold.

Prom Issue of THE TECH to be Sold at Midnight

During the intermission at the Junior Promenade at midnight when everyone is dining, the Prom issue of THE TECH will be sold to the merry-makers. This Prom issue, as usual, will be decidedly different from the regular current issues. It will be featured by a four page rotogravure section depicting scenes of activity around the Institute.

Besides the roto section eight pages of news will be presented in place of the regular four pages. A picture of the Prom Girl of 1929 will grace the front page of this section. Members of the staff of the paper will act as newsmen for the evening and will sell THE TECH in the Georgian Room where the Prom guests will dine. On Saturday morning the Prom issue will be sold in the corridors of the Institute as usual.

CLUBS GIVE RADIO CONCERT SATURDAY

To Broadcast One Hour Program
of Music Over Radio
Station WBZ

Radio enthusiasts of Boston and vicinity will have an opportunity to hear Technology's Musical Clubs in action on Saturday evening, February 23, at 10 o'clock when a program will be broadcast by them over station WBZ of Springfield. The Hotel Statler studio will be used for the concert, which is to occupy one hour.

Meanwhile, preparations are rapidly going forward for the Pop Concert and the Spring Concert, both of which are soon to be held. The Pop Concert will be held in the Main Dining Hall of Walker Memorial on Friday, March 22; and the Spring Concert is to take place at the Hotel Statler on Friday, April 26.

The program for Saturday night's broadcast is as follows:

- Program for Radio Broadcast.
February 23, 1929
- I a. El Kapitan Sousa
 - b. Ballet Egyptienne Suigini
 - Instrumental Club
 - II a. Rise, Sleep no More Shepard
 - b. Suabian Folk Song Brahms
 - Glee Club
 - III Popular Selections.
 - Banjo
 - IV Saxophone Solo.
 - Robert Semple '32
 - V a. American Patrol Uleacham
 - b. Thunder and Blazes Fusik
 - VI a. John Peel Andrews
 - b. Promis' Lan' Burleigh
 - Glee Club
 - VII Popular Selections.
 - Banjo Club
 - VIII Popular Numbers.
 - The Technicians
 - IX Take Me Back to Tech. Sedfield '39

GLEE CLUB COMPETES WITH OTHER SCHOOLS

Eleven Colleges Participate
in Musical Contest

In competition with ten other New England colleges, the Technology Glee Club will participate in the Intercollegiate Glee Club Concert to be held at Symphony Hall, Friday evening, March 1st.

Three selections will be rendered by each of the competing clubs. As the first number, each will sing "Songs My Mother Taught Me". This will be followed by a school song from each Club, and then a third number is left to the choice of the individual clubs. The Technology Clubs will sing "Technology", by Lloyd B. Howard '02 as the school song, and "Ave Verum" by Mozart as its choice number.

Other schools which are to compete are: Amherst, Bowdoin, Boston University, Clark, Middlebury, Northeastern, University of Vermont, Wesleyan, Williams, and Worcester Polytechnic Institute.

This is the fourth of the New England Intercollegiate Glee Club contests which are conducted by the University Club of Boston and its continuation depends greatly upon the support it will receive this year.

MAJOR SOCIAL EVENT OF YEAR FEATURES REISMAN IN PROM AT THE STATLER

CORPORATION TEA DANCE COMES AS CLIMAX TO PROM

Reisman's Orchestra Will Play at
Annual Reception to
Junior Class

Coming as a climax to the Junior Prom, the annual Corporation Tea Dance will be held in Walker Memorial on Friday, February 22 from 3 until 6 o'clock. This reception comes as a sequel to the Prom and the same orchestra will play at both functions.

The reception is given each year by the Corporation to the members of the Junior Class and their friends and usually is held during Junior Week, preceding the ball. Since Junior Week has been abandoned this year, it was necessary to plan the reception for a different date. The day following the Prom was selected in order that the Tea Dance might climax the ball.

Leo Reisman and his orchestra will play at the dance as well as at the Prom the night previous. Reisman's orchestra has proved to be one of the most popular at Technology. Professor and Mrs. William Hovgaard will receive for the Faculty, and Mr. and Mrs. William J. Powell for the Corporation. Morris A. Parris, Secretary to President Stratton, is in charge of arrangements.

BACK BAY NUMBER OF VOO DOO OUT MONDAY

Phosphorous Promises Many New
Features and Surprises

"The most startling number of the magazine that has ever appeared," says Phosphorous in commenting on the February issue of Voo Doo which will be on sale Monday. Starting from the front cover, which Voo Doo considers a masterpiece in its line, by Wendall R. Holt '29, just what the line is, can best be imagined by reflecting on the name of the issue, "Back Bay Number." Through to the last joke surprise after surprise is offered to the reader.

More drawings and the omittal of the "Politics" and "Athletic" columns feature the issue. Three full page drawings by Holt, Babs Balboni, and Shelley grace the pages of the magazine. "Bigger and more smutty jokes" was the cry of Phosphorous to his children, and the cats did their best to fulfill the plea of their master.

TRIO AIDS WHITING IN THIRD RECITAL

Violin, Violincello, and Piano
Used in Presentation

Mr. Arthur Whiting gave the third concert of the series which is being offered this year in Room 10-250 last night commencing at 8:15 o'clock. He was assisted by Manuel Compinsky on the violin and Alec Compinsky who played the violincello. There are still two more recitals to be given this year and they are expected to attract many music lovers.

Mr. Whiting continued the development of musical themes with last night's recital and illustrated the trends of musical thought in the period of the early nineteenth century with a Trio, C Major, op 87 of Brahms and Trio, B Flat, op 99 of Schubert. Each of these selections was presented in its four parts.

Veil of Darkness and Mystery Covers Dorms

Flickering intermittently and then diminishing slowly the lights at the Institute and the dormitories interrupted study at 11:30 o'clock on Monday evening. Total darkness prevailed for seven minutes when the lines at the power house were temporarily disabled. In the dormitories the men had ample time to use their flashlights since the trouble was so long being located. Fire crackers, water, and other projectiles were thrown under the veil of darkness. Everyone came out to the halls simultaneously and remained there until the power house straightened out its troubles.

DRESS REHEARSAL COMPLETES WORK ON "A TECH RIOT"

Eight Skits and Three Solo Acts
on Program—Tickets Go
on Sale Monday

With the running of the dress rehearsal tonight, final plans will be completed for the presentation of "A Tech Riot," the Tech Show 1929 musical revue, in the Imperial Ballroom of the Hotel Statler tomorrow evening at 8:15.

During the last three days, both the cast and chorus have been rehearsing until after midnight in order to perfect their acting and dancing. Last night a preliminary dress rehearsal was held in the North Hall of Walker Memorial, and the necessary changes in the program were made. The company this year is unusually large as there are 39 members in the cast and 18 in the chorus.

The skits on the program are: "Bon Voyage" by Jerome B. Geisman '29, "The Last of the Conway" by John C. Greene Jr., Unc., "Action" (played by members of the Dramashop), "The Old Oil" by Harold C. Pease '29, "Boston Common" (pantomime), "Nantasket Beach" by John C. Greene Jr., Unc., "Shear Folly" by Hunter Rouse '29, and "The Cook's Tour" by John C. Greene Jr., Unc. There will also be solos by Samuel H. Evans G. and Daniel Silverman G. a banjo solo by Horace S. Ford Jr., '31, and a Congo dance by William G. Houck Jr., '29. The chorus dances will be accompanied by popular numbers taken from various musical shows.

The souvenir program will consist of a thirty-two page booklet. The cover design, as in former years, will be the same as that of the poster and will be printed in red, white, and black. "A Tech Riot" will be presented twice more in Boston at John Hancock Hall, Clarendon and St. James Avenue, on the evening of March 1 and 2. Reservations of blocks of tickets will be held only until this Saturday when all orders for tickets will be filled. On next Monday the remaining tickets will be placed on public sale in the Main Lobby of the Institute at \$1.00 and \$1.50.

STUDENTS MAY VIEW EXHIBITION GRATIS

Students may obtain free tickets for the New England Hardware Exhibition to be held today and tomorrow in the Mechanics Building Huntington Ave., by applying at the Information Office, Room 10-100. This educational exhibit, which is being held under the exhibit which is being held under the ware Dealers' Association, is open to students from one to seven o'clock.

FIRST PROM GIRL FOR ANNUAL BALL STILL A MYSTERY

Favors For Girls Remain Secret
Signups Must be Redeemed
By Noon Tomorrow

STAG TICKETS FOR SALE

Tomorrow night will mark the climax of social life at Technology, in the Junior Prom. No other function at the Institute is placed on quite so high a plane as this Ball and this year's should be greater than ever with the innovations that the Committee promises.

Music for the affair will be furnished by Leo Reisman and his orchestra which has been augmented to twenty pieces. Leo Reisman will conduct the orchestra for the first hour of dancing and then will return to lead the orchestra in the music after the supper. A more ideal orchestra for Technology's Junior Prom could scarcely be found as Leo Reisman has furnished music for Junior Promenades in many New England Colleges and at least twice previously for Technology Proms. He is one of the most artistic of dance orchestra conductors and has won the praises of many of America's most fastidious critics of music.

Played at Hotel Astoria

Last summer Reisman played at the Roof Garden of Hotel Astoria, New York and the popularity of that resort was greatly increased because of the excellence of his music. The orchestra will play from the floor rather than the stage as this has been found to give better results.

By securing some popular theatrical star to be the Technology "Prom Girl," this year's Ball will have something that no other could boast of. The name of the girl still remains a secret despite attempts to have her name revealed. She is coming as a guest of a member of the Prom Committee and will sit at the Committee table. It is expected that she will entertain in an act of her own choice.

As is customary, the girls attending the ball will be given favors, the nature of which is usually the cause of much speculation. In previous years, the favors ranged from gold vanity cases to leather cases. The nature of this year's favors will remain another Prom secret until they are given out the night of the ball.

Stag Tickets Offered

Redemption of the signups will be continued today and tomorrow due to the fact that so many have been tardy in redeeming their signups. There will be someone in the Main Lobby from 9 until noon to take care of those who wish to buy tickets. At the same time, a limited number of stag tickets will be sold. The cost of these will be \$6 for the Prom alone or \$7.50 including the Tech Show. Neither of these tickets will include the supper. Practically all of the table reservations have been taken but

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Senior Nominations Due Before Tomorrow

All nominations for the Senior Week Committee must be turned in before one o'clock tomorrow to be valid. At the same time the nominations for the three Senior Class Marshals will be received. Five names are sufficient for Committeemen nominations while twenty-five are required for Marshals. The elections will take place a week from today. Polls in the main lobby will be open from nine to five o'clock.

A Record of Continuous News Service for 48 years.



Official News Organ of the Undergraduates of M. I. T.

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In charge of this issue:

M. F. Burr '31, E. F. McLaughlin '32

BRIGHTENING PROSPECTS

IF no conclusions whatever had been reached at the meeting Monday afternoon of the Liberal Club, thinking students and faculty members at the Institute would not have been completely discouraged. If there had only been an informal discussion among the students of the subject, "American vs. European Educational Methods", the meeting would have had ample justification. For such evidence would in itself clearly show that the undergraduate interest at Technology was swinging to center on "Education" instead of regarding the years here as a four year club.

But—such a limited proceeding was not what took place. The group listened attentively to speakers who have had experience which makes them eminently fit to discuss the subject, men who have spent time and study in educational institutions both in this country and in Europe. These men, Professors Barker, Keyes, and Vallarta, brought before their listeners points which they had never realized before, and the discussion which followed was gratifying.

In considering a comparison between methods of teaching here and abroad, it is necessary at the outset to realize in what respects the two systems are comparable. In the first place, there is an essential difference which few regard with proper emphasis—American education is for the masses, while European education is limited to a few in the upper strata (often, lamentably, the upper social stratum). This condition is gradually changing throughout Europe, and the lower classes are beginning to demand their rights.

Thus this colossal problem confronts American educators—the fact that their limited facilities have to cope with a great number of seekers after knowledge. Witness this phase of the problem—there has been in the last ten years a 70% increase in college attendance. Obviously there is much ground for improvement—what machine with almost double its load could continue to operate efficiently?

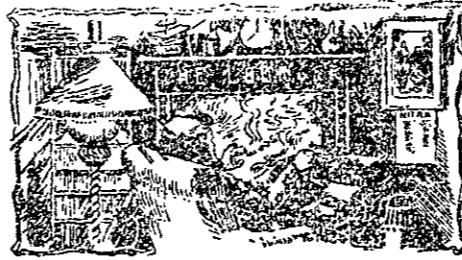
Another point which has been spoken of editorially in THE TECH is that the student who enters the institutions of higher learning in Europe is more than a year ahead of the average American college entrant. Men who have had contact with the students in the French preparatory schools say that these boys in their last two years use calculus, for instance, in a way which would put to shame a Sophomore in college here.

The Society for the Promotion of Engineering Education has suggested some conditions which must be met before the dreams of an ideal engineering education may be reached. We will have this Utopia when, and only when "First, those best qualified for engineering service will seek entrance to the profession through the medium of engineering schools; second, when all so seeking will receive fair and impartial trial; and third, when those not fitted or not vitally interested will be discovered and properly advised without the stigma of failure or loss of time."

A STEP AT A TIME

FROM the time man becomes an entity in the world, he must be careful not to go too fast. If he runs too fast when a small child he is likely to fall headlong. If he tries it at school at any age he will probably find himself in water over his head. If he tries it as a business man, the chances are that he will shortly be bankrupt. Here at the Institute this idea of "a step at a time" is particularly important. It is essential to know thoroughly the principles of every subject because all engineering courses are so inter-related that that which may seem unimportant and trivial in one course may be vitally necessary to the understanding of another. For this reason a student should assure himself that he knows all about one subject before proceeding to the next.

"A step at a time" is in reality the theme of all technical training. It expresses exactly the scientific approach to any subject. Sometimes the mere "Passing" of a course is not indicative, even to the student himself, that he has gotten all from it that he would like. Would it not be practicable to have an arrangement by which a student could attend classes in a subject after passing it without any outside work being required? This would be highly conducive to greater thoroughness and the picking up of all loose ends. It would naturally result in the student gaining confidence in himself and his background through this easy and simple deepening of impressions.



Corp di Baccho, sapristi, and other cuss words!! This is what the Lounger calls the height of something-or-other! After chartering one perfectly good bus to convey our super-enthusiastic basketball fans to New Haven for the Yale game, the charterers had to cancel all arrangements. Twenty dorm men were sufficiently interested and opulent enough to sign up, but there were only two men signed up from the rest of the school. Thirty-two men were necessary to make up the bus load. Say, wot inell is the matter with this outfit—how can we expect the team to win?

And while we are still feeling cantankerous, we might inquire as to what has happened to the inventive powers of our much-vaunted dormitory board. Three dorm units still labor under the very unoriginal designations of Sections D, E, and F. How about dragging forth that case of seltzer from under the bed and holding some christening ceremonies? Even Pullman cars have names and surely our list of late lamented presidents and professors has not been depleted.

It is with increasing alarm that the Lounger takes note of the methods of the members of the Economics Department. This Institute is going to hell as fast as it can go. It seems that at the beginning of the term, Professors Dewey and Tucker are sent out to take over the classes in Ec32, and after they have succeeded in getting the roll cards safely in their possession, they vacate and turn over their classes to some less stellar members of the department, who have been known to find difficulty in filling their class-rooms.

Now, besides this being a sneaking trick (The Lounger himself was fooled too) it is disgusting to have to go in to the office to plead for your card back. It takes a more silvery tongue than the Lounger possesses to frame up a suitable excuse.

WITH THE AMERICAN COLLEGE EDITORS

SACRIFICE

He was a freshman. One of those who had amassed three or four E's. He was scheduled for separation. That much is traditional.

They came suddenly, these failures. Going into examinations he had been passing in all his courses. He wasn't brilliant, at all—just a C man, occasionally a B, more often a D. But he had been passing.

This last semester he hadn't tried to gild Hanover in the first five months. He had stayed home and studied, often late into the night. Finals worried him. He had heard a lot about them. It seems they were different from those he had known in prep school. They weren't simple memory tests, like the policing quizzes and hour examinations. On finals you had to correlate the material into neat, compact outlines: Discuss Browning, (Forty Minutes.) He hadn't had much training in outlining and laying on top of the memory skeleton those graceful combinations of suave and purring words that drew A's and B's. So he studied harder. It was the only way he knew.

He never dared to miss a class. He was afraid of missing something that might be on the final. He was worried a lot when the Registrar chalked one cut against him for the semester.

Now he knows where he has been wrong. It has been his method of study. But knowing now won't help him much. Just at the point when he might start a period of academic reconstruction, he's going to be separated. This is called setting an example. It is the popular picture of what happens to a boy who doesn't study. But he studied. And he is not dumb.

He is just one of those whose training is faulty. He wonders at the system which admitted him, and which now disgraces him by separation. It should have known something more about his prep record. But it didn't.

He is only one of the many who gradually and ever so slowly force reforms on the educational system. Some day perhaps there will be time enough for Authorities to consider humanity a little more than by brief perusal of marks and records and briefer memories of faces.

But right now he is up against the first failure of his life. The manner of his separation will mean a lot to him. It won't be a pretty picture, those memories.

—The Dartmouth.

Guggenheim School Professor Confutes Those Who Would Scrap Wind Tunnels

Claims That Moving Pictures of Planes in Flight Not Adequate Test

According to Professor Alexander Klemin of the Daniel Guggenheim School of Aeronautics of the College of Engineering at New York University, the statement that moving pictures of planes in flight would replace wind-tunnels is grossly in error. Only incomplete evidence would be furnished, and the pilot's life would be jeopardized if the movie idea were adopted, said the professor in an interview for the New York Times.

If such a plan were to be used universally, the great wind-tunnel in Building 33 would be "scrapped." The possibility of such happening is very remote, according to this authority on aeronautical engineering, who goes on to point out the salient errors in the new plan.

Some of the features of the cinematographic tests are advantageous, he states. Exponents of the idea stress its cheapness, contrasting the costs of the huge aerodynamic tunnels with the expense involved in taking moving pictures of airplanes in flight. In this respect they are right, and to go further, excellent results have been gained from a careful study of such pictures. By the method, the path in space of the plane is accurately determined, and all the aerodynamic properties of the airplane, such as lift and efficiency, are made known.

Novel Idea is Basically Wrong

To put Professor Klemin's ideas in common parlance, what concerns investigators is not so much how an existing machine flies, but whether an airplane, built from the designer's specifications, will actually fly. To ascertain these facts it is essential that a model, accurate to the last detail, be built, and then subjected to rigorous tests in the wind-tunnel. Moving pictures would be of no avail at all in this situation, because instead of actually flying the model, through the air, wind is forced at it by mechanical means in the tunnel. Actual flying conditions are brought about without spending the time and money to build the full-sized plane, and its flying ability is ascertained without risking human life in flying it.

Recent experiments in France by MM. Hugenard, Magnan, and Saint-Lugue were deprecated by Professor Klemin, and he claimed that editorial approval of their work was sadly in error. In their experiments, moving pictures of airplanes were taken against a network of fixed rods. Their conclusions merely demonstrate the

Prof. Copithorne Heads Session of "Modern Poetry"

Poems of Lincoln by Markham and Masters Feature First Memorial Reading

In charge of Professor Matthew R. Copithorne of the Department of English, the first reading of modern poetry to be held in memory of William Eastman, Jr. '18, took place in the library of Walker Memorial, Monday night at five o'clock. Two more sessions will be held on Monday, February 25 and March 1.

Due to the fact that it is so near Lincoln's birthday, Professor Copithorne began with two poems about this great man, "Lincoln, The Man of the People" by Edwin Markham, and "Anne Rutledge" from "Spoon River Anthology" by Edgar Lee Masters. He believed that Markham in this poem and in "The Man with the Hoe" approaches the greatness of some of the classical poets.

"Delicatessen" by Joyce Kilmer was among the poems read. This poem shows the chivalrous spirit that is so evident in the life of this poet. It was this spirit that moved the poet to be among the first Americans to enlist in the army during the great war. Furthermore the poem was written on a bet that Kilmer could not write worthwhile verse on such a commonplace subject. That the poet won the bet will be evident to anyone who reads the stanzas.

Several fine verses of Alice Mennel were read. This Englishwoman is noted for the perfection she attained in her poetry. She is so fastidious in her work that we only have very few poems by her. Professor Copithorne remarked that in giving the world so little poetry, which is at the same time her best, she may save herself from the horrible fate that befell Wordsworth and other poets.

The audience approved greatly some poems of Enid Dinnis, a comparatively unknown English poet. A poem that might be the prayer of a student at the Institute concluded the program: "Prayers of Steel" by Carl Sandburg.

characteristics of the existing airplane.

Tunnel Duplicates Flight

The wind-tunnel as used at the Guggenheim School is an immense one, 110 feet long and 55 feet wide through which air is driven by an eight bladed propeller, powered by a 300 horsepower motor. Wind velocity up to 100 miles per hour can be attained. While this tunnel is one of the largest in the world, the apparatus here at the Institute is 90 feet long, and the velocity of the air in it reaches 90 miles per hour.

The tunnel tapers from each end to its smallest diameter in the middle. The air increases in velocity as it gets to the mid-point, and it is here that the model is suspended. The actions of the model may be watched through a window in the side of the tunnel, and the effect of the rush of air on the wires which suspend the model is measured by accurate instruments. Thus the behavior of the full size ship is closely approximated.

Continued Use of Tunnel Assured

That aviation authorities will never allow the displacement of the tunnel is the opinion of Professor Klemin.

"The tunnel enables the stability and balance of the airplane to be predicted with accuracy long before the plane is ready to be flown. There is no excuse now for a trial flight ending in a nose dive from which the pilot rarely, if ever, can recover. Moreover, in designing a plane, the engineer may wish to test rapidly the effect of various modifications. He can do this with ease on his small and altered model. To conduct experiments with moving picture cameras and to change the full-size plane is a problem involving prohibitive expense."

"There is no doubt that the moving picture method will add greatly to our experimental sources, however, but to say that it renders the wind tunnel obsolete is a dangerous statement," he concludes.

MILKY WAY BAR IS GENERAL FAVORITE

"What the college man eats between meals" might well be substituted for "What the well dressed man will wear" in some of the current theater programs. This question seems to be vital to some of the students here as well as other colleges. The candy and cigarette stand in the basement of Walker is as busy sometimes as the most frequented of the downtown Liggett stores. Carefully compiled statistics show that enormous quantities of confections are consumed yearly, the preference being for Milky Ways, Hershey bars, Mr. Goodbars, and other bars with peanuts in them. Peanuts have rapidly ascended to the top place as favorites in the last few years, since the coming of Oh Henry.

The tobacco business is also very large. The average college man prefers Lucky Strikes to any other brand. Camels rate second, and Chesterfields third. The few who buy cigars express a liking for Overlands, while chewing seems to have passed on and died a well-deserved death. Ice cream in the form of "Dixies" is as popular a dessert as any for those who eat at Walker, and these dainty dishes are used extensively as go-betweens.

JOHN SPANG QUALITY RADIO EQUIPMENT STANDARD SETS AND PARTS INSTALLATION SERVICE Phone Kenmore 0745 125 MASSACHUSETTS AVENUE (Next to Cor. Boylston St.) Boston "First Tested—Then Sold" Discount to Tech Students—

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BOXERS MEET NEW HAMPSHIRE

Cagemen Will Compete With Maine and Aggies

Varsity and Yearling Bag Punchers Meet Wild Cats Tonight in Hangar at 7:30

Tonight the Engineer mittmen will meet the New Hampshire Wildcats in the Hangar at 7:30 o'clock in the first of a series to be held this season. Both teams are experienced, having had several meets this winter, but the Cardinal and Gray bag punchers expect to pile up wins in the lighter classes to carry the team to victory.

Joyce will be the first man to go on for the Engineers, in the 115 pound class. Joyce is taking the place of Orleman, and having boxed on the Varsity two years ago, he should make a good showing against his man tomorrow night. He will be followed by Saavedra, another promising boxer who is taking the place of Lammoret. Saavedra boxes Lucinsky of the Wildcats, who has had four years of experience, but he has shown wonderful stamina in practice, and he will undoubtedly give Lucinsky a hard fight.

Bolanos Expects a Victory
Captain Bolanos, still undefeated, hopes to score an easy victory over his opponent tonight. He has won in both the Navy and the Syracuse matches, and is in fine shape for the meet tonight. Jameson, in the 145 pound class, also undefeated expects to win. In the last meet with Syracuse, Jameson knocked his man out in the third round, and his powerful right and left hook will undoubtedly shake the New Hampshire man.

In the 160 pound class, Engler, who is a new man on the team, will enter the ring for M.I.T., and although he has had little experience in collegiate boxing, he has shown possibilities, and should put up a good fight against his Wildcat opponent. To finish off the meet, Horton will face the strongest man of the New Hampshire team, who has several knockouts to his credit, but also has several against him, so that the outcome of this match seems doubtful.

Freshmen Expect to Win
Robert, who is boxing the 125 pound class, will be the first man to go on for the freshmen. He won his first meet at Yale by default, and hopes for his second victory tonight against the New Hampshire yearlings. Robert will be followed by Daniels, the fast 135 pounder, who lost a close bout at Yale, but expects to send his opponent to defeat tonight with hard punches.

Schultz Will Box in Heavies
Schultz, who held his 175 pound opponent at Yale to a draw, will box in the 145 pound class against New Hampshire, and expects to score an easy victory over the Wildcat yearling. To end the meet Captain McDonnell will face the 160 pound Wildcat frosh, and although he lost to Bubb of Yale, he is expected to defeat his opponent tonight. He is 20 pounds under his limit for the class but is fast, and in good condition for the meet, and he will give the New Hampshire man a hard fight.

"Emphasis in the college is coming to be placed more and more on preparation of the student for some little niche in the huge and intricate business world. The little pamphlet received by the seniors at Columbia College the other day is a sign of the times. It bears the imprint of the University and is apparently sent out for the purpose of preparing the students for their place in the business world. The title is 'How to Get and Keep a Job' and the author is C. R. Dooley of the Standard Oil Company of New Jersey. 'The young man', says Mr. Dooley, 'must work hard, be docile, must possess a great deal of fighting ability and some of the characteristics of a politician'. He must throw aside any Aristotelian nonsense about material goods as means for the Good Life, and must accept Babbitt's philosophy of money-making as an end in itself'. He will, with Mr. Dooley, look with scorn on

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GYM TEAM STARTS SEASON WITH EVEN BREAK IN GAMES

Weekend Trip Results in Victory Over Army, but Tigers Are Too Strong

NEXT MEET WITH U. OF P.

Poor Officiating Hurts Beavers at Princeton—Decisions Are Unpopular

On its first trip of the 1929 season, the M.I.T. gym team broke even in the two meets that were held. At Princeton on Friday afternoon they lost by a score of 30 to 24, but came back the next day at West Point and won the meet with the Army, 33 to 21. Both meets, as the score would indicate, were close and interesting to watch.

The Princeton meet was rather unsatisfactory to the Technology followers because of the judging, which was erratic to say the least. Poor decisions, in the opinion of the expert gymnasts who were present, were given to members of both teams, but the Engineers came out on the short end. Captain Fairchild, Wells, and Reynolds took first places in the horse, horizontal, and rings respectively. Exceptional work by Morse received only a third place in the horse. Dolloff received a bitter pill when he was awarded first place in the tumbling by a large margin from two judges, only to have his lead cut 57 points by the third official. This put him in second place in the event. Reynolds took a third on the parallel, Wells second on the rings, and Captain Fairchild third on the rope, the only event in which Princeton showed superiority.

Win at Army
In the first event at West Point the cadets took all three places in the horizontal bar. Wells was unable to handle himself correctly due to the fact that the bar was much lower than standard. His series received great applause from the crowd of more than one thousand, but received little credit from the judges.

In the next event the Engineers reversed the score by winning all three places on the horse, with Captain Fairchild, Morse, and Knapp as winners. Knapp, in his first year of competition, worked like a veteran, out-scoring his nearest opponent by 58 points.

Clean Sweep on Rope
In the rope climb the Engineers again placed one, two, three, with Wes Reynolds, King Couper, and Captain Fairchild in the list of winners. Bell of the Army won the parallel, but his captain, Pools, lost to Reynolds by 40 points on the rings.

In the tumbling, Dolloff and Poole staged an interesting competition for first honors, and the lone M.I.T. entrant won by the score of 606-605. Bell of the Cadets placed third.

Next Meet Saturday
The next meet for the Engineers will be held in Walker Gym on Saturday afternoon at 2:30 o'clock with the University of Pennsylvania as the visiting team. Little is known about the Quaker squad this year, and Coach Hincks will spend the intervening time in perfecting the series on all pieces of apparatus.

Purdue University innovates a plan which allows each student to grade his instructors as to neatness, presentation of the subject matter, and other qualities which make a good teacher. As undergraduates will hand these in without signatures, it is expected that the ratings will prove beneficial to both instructors and students.

B. U. SKATERS MEET HOCKEY SEXTET AT ARENA TOMORROW

Hockey Team Ends a Successful Conquest by Winning 4 Out of 5

Returning from a successful invasion of Maine, the Cardinal and Gray sextet, stands prepared to send the fast B. U. team to defeat, tomorrow night in the new Boston Arena. The sextet will play in the first half of a double header, the final game being between the B. A. A. and the University Club. The Engineers have made a wonderful showing, losing only one out of the last five games played.

In their first game, the icemen blanked the New Hampshire Wildcats 5 to 0. The team played a fast game but still lacked the team work that was later developed. After sending the Wildcats to defeat, the skaters took on the Army, and played a much faster game, winning by the score of 5 to 2. The Engineers showed a marked improvement in this game, Crosby and Cullinan being the stars. Riley at goal also stopped many Army shots.

Defeat Bowdoin
Playing the fastest game ever skated on Brunswick ice, the Engineers added another victory to their string, by sending the Bowdoin team to a 2 to 1 defeat. The game was close from start to finish, and Riley stopped the Bowdoin barrage very successfully, enabling Crosby and Cullinan the high point men of the team to send the puck flying into the net three times for a win. After playing four overtime periods, the hockey team was again victorious over the fast Bates skaters and sent them to defeat by the score of 3-2. At the end of the regular period the score was 2-2, both teams trying desperately to make the winning shot. In the fourth overtime, the Engineers came out of a scrimmage to send the puck flying into the net for the winning score.

Hard Game at Princeton
At the close of the first period in their Princeton game the score was 0-0, and the sextet, by playing hard, was expecting another victory to be added their long string, but in the second period in a furious attack the Tigers were able to send the puck past Riley four times, making the score 4-0. In the third, the Technology skaters rallied and held them to one goal, making one themselves which saved the team from a shutout. Fast and experienced, the sextet hopes to win tomorrow night, from the B. U. team. Hall, who is a sophomore has been playing wonderful hockey, and it was his goal that won the game with Bates after four overtime periods. Crosby and Cullinan have also been playing sterling hockey, and they will undoubtedly be outstanding figures in the B. U. game.

the "pathetic spectacle" of those who seek a job and nothing more; it matters not to them what kind of a job it is, so long as it does not require many hours and provides a reasonable income."

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Two Weekend Games Are Scheduled for Varsity Quintet in Hangar Gym

With a determination to make up for the defeat that Yale handed them, the Cardinal and Gray basketball team meets the University of Maine and the Massachusetts Agricultural College in the Hangar gym on Thursday and Friday nights respectively. Both Maine and M. A. C. are supposed to have strong teams, with the farmers having the slight edge over the Maine woodsmen.

During the past few days the Engineers have had several fast workouts and are looking good. Brig Allen is making shots from all parts of the floor. All of the team members are eager to make up for the Yale defeat and as a result they are working pretty hard.

Aggies Have Strong Team
Of the two teams that the Engineers meet this week, the Mass. Aggies seem to be by far the stronger team. They succeeded in trouncing Harvard 31 to 27 in a game played in the Hemenway gym. Their leading player is a tall center with the big name of Stanisiewski, who succeeded in scoring seventeen points in the Harvard game and plenty of additional

FROSH BASKETEERS DOWN RIVERS 43-18

Castleman and Johnson Star For Cardinal and Gray Team

Continuing their winning streak, the freshman basketball team swamped Rivers School by the lop sided score of 43 to 18. In this game the Frosh showed more than their usual fight and had the game on ice all the way.

Castleman turned in a stellar game at right forward for the Cardinal and Gray and was one of the best men on the floor. His shooting was accurate and before the final whistle he succeeded in scoring eight baskets and one foul. His lead was closely followed by Johnson who was given the assignment at center. He caged seven baskets and one foul to help swell the Engineer's total. Paul and Rickard playing right and left guard respectively presented an air tight defense. Rash played a good game at left forward and dropped the ball through the draperies for a total of three baskets.

Although outclassed from the start, Rivers played a courageous game throughout. Hopkins who played right guard for the losers put up a pretty game and was the high scorer for Rivers School. He finished with four baskets to his credit. Murphy, Niles, and Cook turned in a good game for Rivers.

The frosh have come out of their early season slump and have begun to show a drive which was missing before. (Continued on Page 4)

points in other games. Besides trimming Harvard the farmers took over Lowell Textile 33-15, and Amherst 22-13. On the other hand, they were defeated by Dartmouth and Williams. The Williams game was close with a 12 to 9 score while the big Green five swamped the Aggies to the tune of a 32-19 walkaway. The only available score from Maine is the defeat that the Connecticut Aggies handed them, the score being 29-22.

Brockleman Injures Finger
Injured fingers seem to be the one cause of annoyance to the Cardinal and Gray quintet. First Brig Allen smashed his and now Captain Brockleman has injured one of his fingers. However, the injury is not serious and he is not being kept out of practice. Probably the only effect of the injury is on the accuracy of his shots.

Meanwhile the yearlings are preparing for the Boston Boys' Club contest which comes on Saturday, February 23. During the past two weeks the freshmen have improved greatly, as they succeeded in winning their last two games. Prospects look good for another victory and the yearlings are out to make up for some of the upsets that occurred earlier in the season.

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NOTICES and ANNOUNCEMENTS

From the Faculty

Lectures by

PROFESSOR REINHOLD RUDENBERG

Chief Electrical Engineer of the Siemens-Schuckert Works in Berlin

on

Earth-Currents and Interference

Monday, February 25, 3 P.M. Room 10-275

Travelling Waves on Transmission Networks

Tuesday, February 26, 3 P.M. Room 10-275

Open to all students and instructing staff

CALENDAR

Wednesday, February 20

7:30—Boxing team meets New Hampshire, Hangar Gym.

Thursday, February 21

1:00—All Senior nominations due.
7:30—Basketball team plays U. of Maine, Hangar Gym.
8:15—Tech Show at Hotel Statler ballroom.
10:30—Junior Prom at Hotel Statler.

Friday, February 22

3:00-6:00—Corporation Tea Dance, Walker Memorial.
7:30—Basketball team meets Mass. Aggies, Hangar Gym.

Saturday, February 23

2:30—Gym team meets U. of Penn. in Walker Gym.
2:30—Handicap meets for Varsity and freshman tracksters.
10:00—Musical Clubs concert over WBZ, Springfield.

Monday, February 25

5:00—Modern poetry reading by Prof. Copithorne, Walker Memorial library.

Tuesday, February 26

8:00-8:00—Corporation XV dinner meeting and lecture, Walker Grill.

UNDERGRADUATE

NOTICE

There are still a number of vacancies in the sports department of THE TECH. Here is a great opportunity for a number of wide-awake men to get something that will be interesting and beneficial. Men who are substituting some sport for P. T. will find a great deal of enjoyment in covering the sport in which their interest lies. THE TECH tries to cooperate with men as much as possible in this respect. It develops a closer contact with the athletic side of Technology life, while at the same time it enables one to do something worthwhile in the interest of sports, and ultimately of the school in general. In order to do justice to all the athletic activities about the Institute THE TECH must have the cooperation of the live men who must exist somewhere among the student body. Come on, freshmen and Sophomores, show that you are alive, and THE TECH will help you to bring out the best you have in you.

SENIORS

All seniors interested in obtaining positions with the American Steel and Wire Company should make arrangements with the Personnel office, Room 3-212, for an appointment with the

representative of this company on March 18.

TECH SHOW PICTURES

Members of the cast and chorus, or any others who would like pictures of scenes from this year's Show may obtain them by placing an order with the Tech Show office any afternoon this week. The pictures may be seen in the office any afternoon.

TECHNIQUE PICTURES

Managers of teams, and Presidents of fraternities, clubs, and societies are asked to call at the Technique Office to secure proofs of group pictures for the purpose of taking orders for these pictures.

SCHOLARSHIPS

The attention of students who anticipate continuing graduate work next year in Europe is called to the notice posted in the Information Office regarding the date on which applications for scholarships for study in various foreign universities and technical schools should be filed with the Institute of International Education, 2 West 45 Street, New York City. Further information regarding these scholarships may be obtained by consulting the Dean of Graduate Students, Room 4-112.

GENERAL ELECTRIC REPRESENTATIVES

Seniors and Graduate students have the opportunity to be interviewed in regard to employment by Mr. Boring and Mr. Means who are representatives of the General Electric Co. Paul A. Johnson '28 will arrange for these interviews.

Preliminary conferences are being held in Room 3-213 for the remainder of the week, wherein questions may be discussed as to the work of young engineers in the General Electric Company. The actual interviews for employment will be held February 27 and 28.

PLANS COMPLETED FOR JUNIOR PROM

(Continued from Page 1)

there are still a few remaining for the tardy buyers.

Tech Show Starts Evening "A Tech Riot" the arrangement of skits under the leadership of William C. Greene which form this year's Tech Show will open the entertainment of the evening in the Main Ball Room. After the Show there will be a short intermission while the Hall is being cleared and then there will be dancing till 12:30 o'clock, when supper will be served. For supper the party will go to the Georgian Room. During the supper the Prom Number of THE TECH will come out and will be distributed by members of the staff acting as newsies. After the supper dancing will be resumed in the Ball Room and will continue till four o'clock.

The Patrons for the Ball will be: President Samuel W. Stratton, Professor and Mrs. James R. Jack, Mr. and Mrs. Horace S. Ford, Mr. Morris A. Paris, and Mrs. Gill.

Artificial Heart Keeps Dog's Head Alive for Hours

Dr. Brukhanenko of Moscow Science Institute Makes Brain Live After Body

Sober and intensive study by Soviet scientists of the fascinating, yet terrifying problem of life and death at last is producing some remarkable results at the Moscow Chemico-Pharmaceutical Institute.

Dr. S. S. Brukhanenko and Dr. S. L. Checulin are in charge of experiments to revive dead animals and persons. They have succeeded in creating an "artificial heart" which has kept the detached head of a dog alive, insofar as action and sensitiveness are concerned, for as long as three and one half hours. The potentialities of an artificial heart in the sphere of practical surgery are unlimited, the scientists believe. It was pointed out that if an apparatus can be perfected which would keep a patient alive for even a few minutes by means of mechanical blood circulation, an operation could be performed to make the necessary surgical repairs on the heart.

Brain Lives After Body

The congealing of the blood is the thing that causes the death of the brain, not the arrestation of the heart, according to Dr. Brukhanenko. The brain ordinarily lives for about three minutes after the death of the body, and if the blood can be kept from congealing by chemical methods, there is a possibility that the animal may be revived. The experiment with the dog's head was repeated before many prominent scientists, and data was taken as to heat, amount of oxygen, and other factors of interest.

The artificial heart itself is a queer-looking affair made of glass and rubber tubing. Blood is poured into a reservoir, from which it is pumped to a "breathing apparatus" where it absorbs oxygen, and passes into the veins. Every moment of the experiments were recorded, and photographs were taken at various stages.

CORP XV WILL HEAR COMMERCE OFFICIAL

Mr. C. K. Moser of the Department of Commerce will address Corporation XV in its monthly dinner meeting in the Walker Grill on Tuesday, February 26. The dinner will commence at 6 o'clock and the meeting will be over in two hours.

The speaker who has just come from Washington, is the chief of the far eastern section of the division of regional information. He will probably speak on the subject of foreign and domestic commerce for the business students.

An edict was passed at the University of Utah prohibiting the students from smoking on the campus. Resourceful students are getting around this ban by smoking on stilts. The length of the stilts is left to the discretion of the individual smoker, but twelve inches is considered a safe distance from the campus.

It has been estimated that the daily value of an education in an elementary school is \$9; in a high school, \$40; and in a college, \$100. This study has been based upon a survey of less than a thousand people and for that season it is subject to inaccuracy.

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DEBATE METHODS OF HIGHER EDUCATION

Liberal Club Contrasts European and American Systems

(Continued from Page 1)

the material while in Europe they have been sifted by the "Prep" schools. "Here the professor is, only considered as one of the gang of "Brown-Baggers." America has no respect for intellectual ability," was one of the statements Professor Manuel S. Vallarta '21 made in his address. Professor Vallarta in speaking of the student body mentioned an article by Mr. Roberts in the Saturday Evening Post. Mr. Roberts says that out of 100 students in college; 20 went because of their family, 30 for social advantages, and so on down the line until we see that about three went to improve their intellect.

The general discussion started; it soon became very lively, so much so that almost everybody in the hall was giving opinions and asking questions. During this discussion many important questions were brought up. Among these were: the important question of specialization; the senior and junior college; whether Technology is a finishing school; and, the expense problem of a college education. This discussion continued even after the meeting closed. Some enthusiastic students still expounding their pet beliefs to the speakers.

YEARLING HOOPSTERS DOWN RIVERS SCHOOL

(Continued from Page 3)

fore. It will be seen whether or not they can keep their stride when they play the Boston Boys' Club. The Boston Club has a sweet team which is capable of putting up a battle. If the yearlings are to win they will have to work all the way.

The Summary

- M. I. T.
- R. F. Castleman—8 baskets, 1 foul.
- L. F. Rash—3 baskets.
- C. Johnson—7 baskets, 1 foul.
- R. G. Paul—1 basket.
- L. G. Rickard—1 basket.
- Sub. Ross—1 foul.
- Rivers School
- R. F. Niles—1 foul.
- L. F. Murphy—2 baskets.
- C. Foster—1 basket, 1 foul.
- R. G. Hopkins—4 baskets.
- L. G. Cook—1 foul.
- Final score: M. I. T. 43—Rivers School 18.

T.C.A. PREPARES FOR COLLEGIATE MEETING

200 Representatives Expected at Mid-Winter Conference

The Eastern New England Student Conference will hold its annual meeting at the Mansion House in Poland Spring, Maine on March 1-3. This is the fourth year that a mid-winter gathering will be held and some of the colleges of Eastern New England have asked for the opportunity of sending more representatives to this event.

Dr. Charles W. Gilkey of Chicago, formerly pastor of the Hyde Park Baptist Church will be the leader of the group. The discussion for this year will be, "Is a dynamic force from without necessary as a motivation for the work done by Christian Associations?" This subject includes a great many topics which will be discussed during the course of the meeting.

The size of the conference is limited to 200 and the quotas for the different colleges has been arranged. A letter is being sent to some of the students who will be given a prior chance to join the Technology delegation. M. Richard Boyer '29 of M.I.T. is the chairman of the Intercollegiate Committee which has arranged the program this year.

Expenses for the trip are about \$9 and the T. C. A. has voted to pay up to half of the expenses of a few needy individuals who would like to go. Thirteen members went to the previous conference and already a few have signed to go on the present one.

"The examinations are formidable even to the best prepared, for the greatest fool may ask more than the wisest man can answer."

—Colton.

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